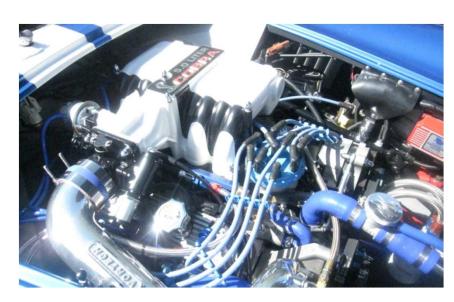


Certification for Engines for Specially Constructed Vehicles

California Air Resources Board November 17, 2011 Byron Sher Auditorium

Outline

- Background
- Regulatory Process
- Staff's Proposed Certification Procedures
- Summary and Staff Recommendation





Background: SPCNS Definition

- a vehicle built for private use, not for resale, and not constructed by a licensed manufacturer or remanufacturer.
- may be built from:
 - (1) a kit;
 - (2) new or used, or a combination of parts; or
 - (3) a vehicle reported for dismantling, which, when reconstructed, does not resemble the original vehicle

Background: Kit Cars (SPCNS)

- Hobby-driven market
- Thousands of kit cars currently registered in California
- Integral part of California's car culture



Background: Certificate of Sequence (SB 100) Process

- 500 new SPCNS per year allowed to be registered in CA
- Exempt from Smog Check
- Every year since its creation in 2001, all 500 certificates have been handed out

Background: Issues Surrounding Kit Cars

- Registration circumvention (Amnesty program)
- Kit Cars are high emitters
- Currently, no ARB mechanism to certify a lower emission solution



1 Uncontrolled SPCNS



30 Modern Vehicles

*emissions are calculated on a per mile basis

Purpose for Rulemaking

- Allow engine manufacturers to certify clean engines for kit cars
- Create a path to help deal with registration circumvention
- Staff's Proposal...
 - Cleaner engine choice
 - Ensures proper installation instructions
 - Allows for legal registration of kit cars in years the SB100 certificates of sequence are used up

Regulatory Development Process

- Began in Spring 2011
- 2 Public Workshops Sacramento (May) and El Monte (July)
 - Engine manufacturers, car hobbyists, engine installers, and SEMA
- Outreach to California engine installers and hobbyist publications
- Other State agencies:
 - Bureau of Automotive Repair (BAR), Department of Motor Vehicles, and California Highway Patrol

Staff's Proposal: Overview

- Provides a new way for engine manufacturers to certify engines
- Helps ensure engines are installed properly
- Gives hobbyists a low-emitting engine option



Staff's Proposal: Engine Manufacturer Requirements

- Low-emitting engine package
 - Meet current exhaust and evaporative standards for new vehicles
 - Emissions controls
 - On-board diagnostics (OBD) system
- Emissions test data based on a worst case vehicle
 - Can use data from previously certified vehicle
- Installation instructions
- Label
- Warranty

Staff's Proposal: Engine Installer Requirements

- Installer Definition
 - Installs a certified engine package in a specially constructed vehicle for compensation
- Install per manufacturer instructions
 - Affidavit, reporting and recordkeeping to enable

warranty claims and recalls

- Installation Warranty
 - 1 year/12,000 mi warranty

Staff's Proposal: Hobbyist Requirements

- Install ARB certified engine package per manufacturer's instructions
- Take to referee station where referee inspects:
 - Ensures vehicle is low-pressure evap test capable
 - Functional Check Engine Light
 - Engine installed per manufacturer's specifications
- Submits warranty card to manufacturer



15-Day Modifications

- Incorporate forthcoming light-duty vehicle emission standards
 - To be considered by the board in January
- Incorporate BAR Automotive Repair Dealer definitions
- Corrections/clarifying changes



Summary and Staff Recommendation

- Staff's proposed certification procedures...
 - 1. Account for the unique nature of SPCNS
 - 2. Allow manufacturers to certify light-duty engines
 - 3. Provide hobbyists a low-emitting engine option
- Adopt staff's proposal with additional recommendations